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Page 1 of 2

## PATENT ABSTRACTS OF JAPAN

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(71)Applicant : MATSUSHITA ELECTRIC IND CO  
LTD

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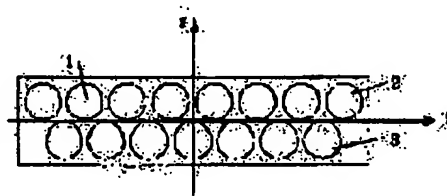
(72)Inventor : FURUTA AKIHIRO  
TANAKA TSUNEO

## (54) DIRECTIONAL SPEAKER DEVICE

## (57)Abstract:

PURPOSE: To provide a directional speaker device for not generating strong side lobes even in a frequency band whose wavelength is shorter than the interval of speaker units.

CONSTITUTION: This device is provided with a speaker array 2 in which 8 speaker units 1 are arranged in a line with a fixed interval and the speaker array 3 composed of 7 speaker units 1 arranged parallelly at the positions next to the speaker array 2 so as to be shifted from the positions of the speaker units 1 with the direction of the speaker array 2 as a reference. Thus, the frequency band is widened to the side of a high frequency band.



## LEGAL STATUS

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Page 2 of 2

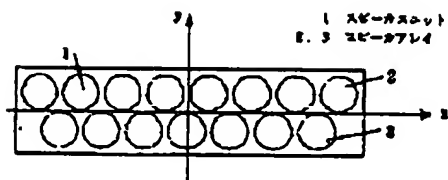
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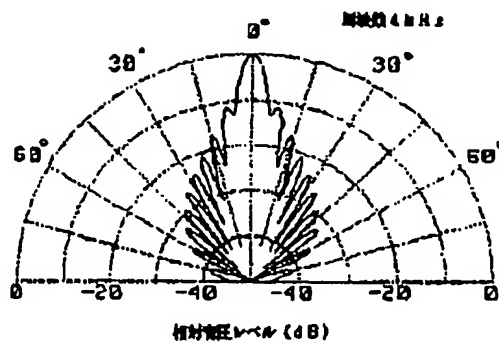
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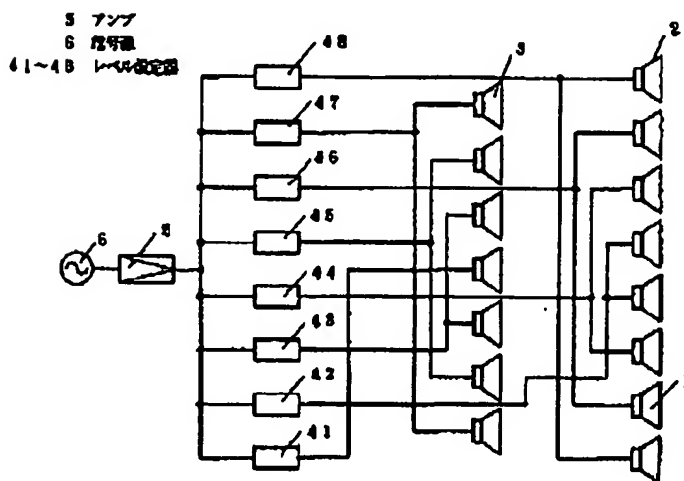
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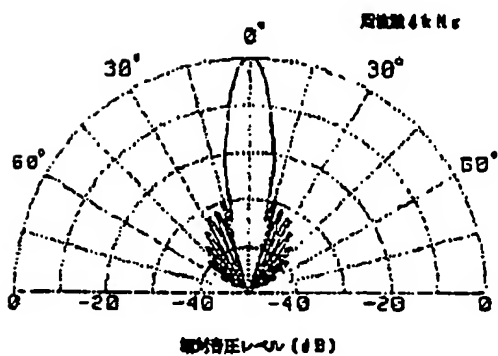
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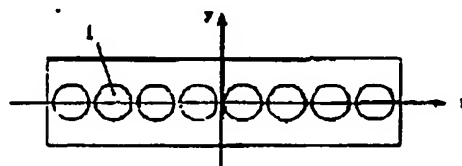
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【図4】



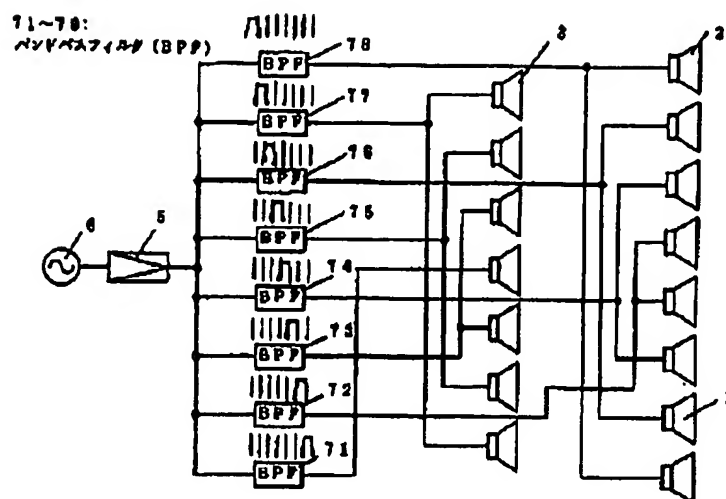
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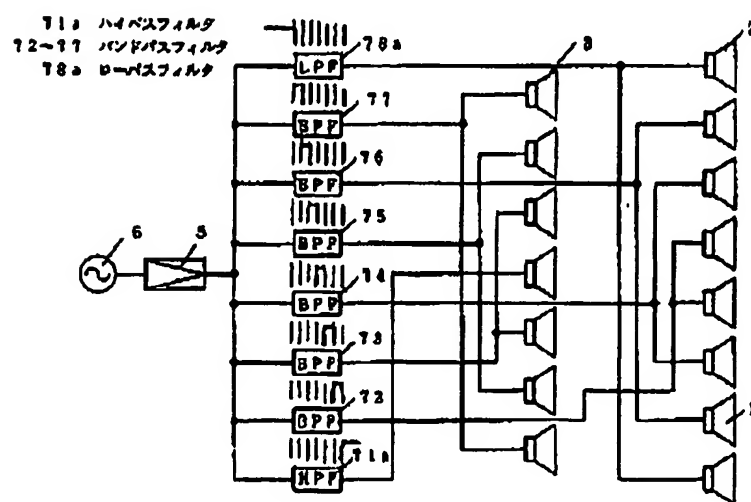
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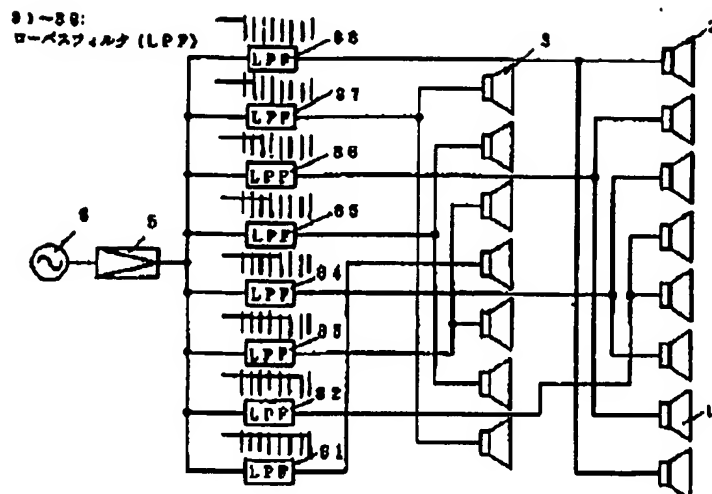
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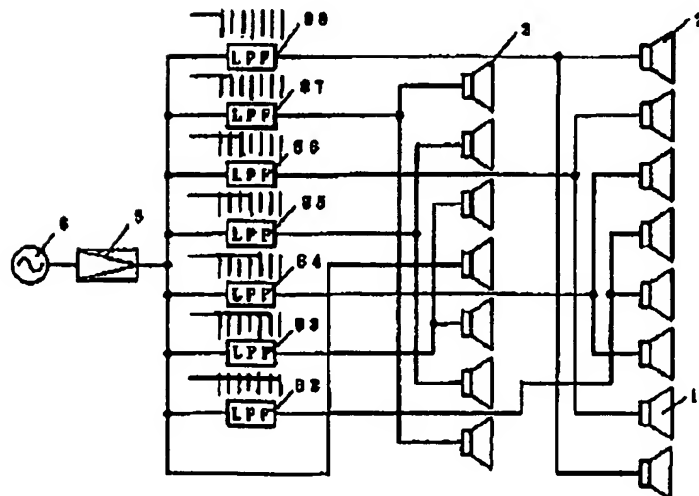
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【図7】



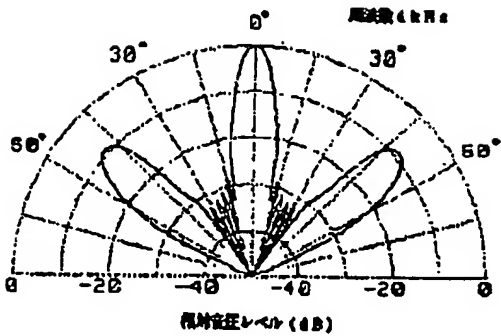
【図8】



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【図10】



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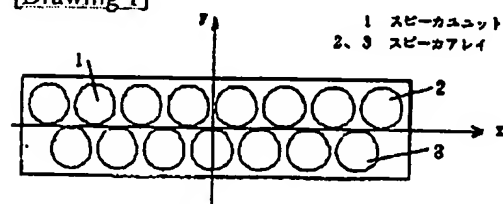
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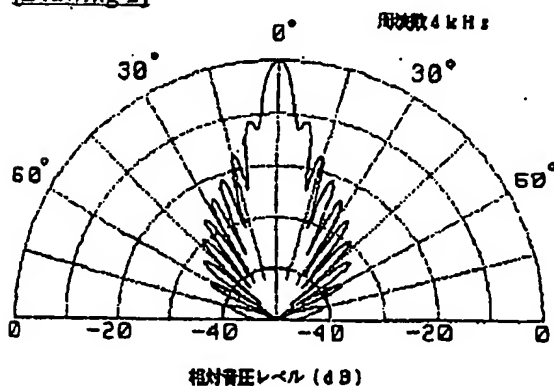
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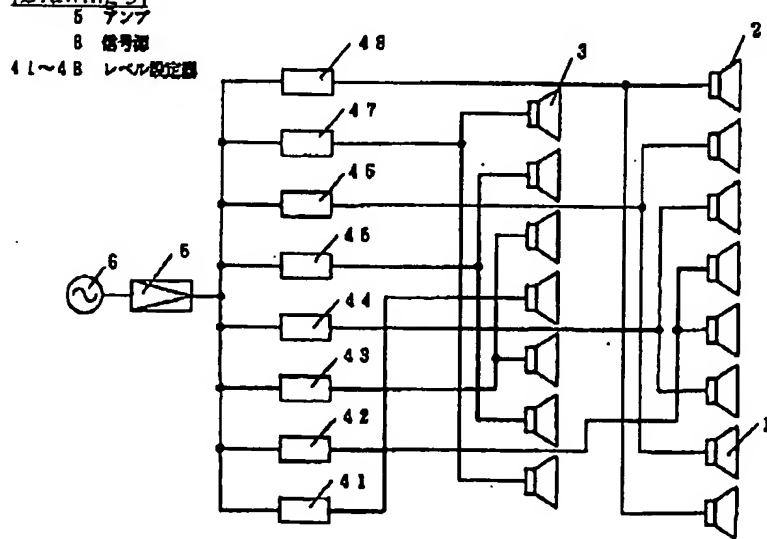
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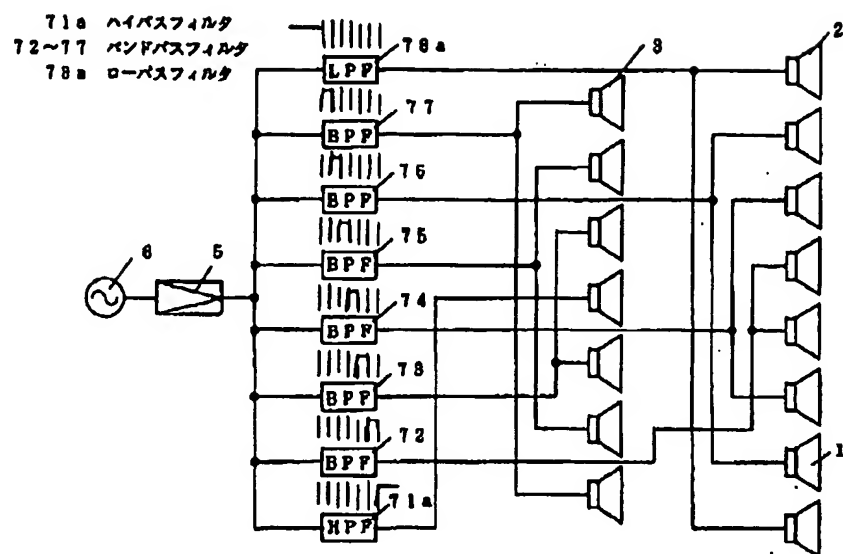
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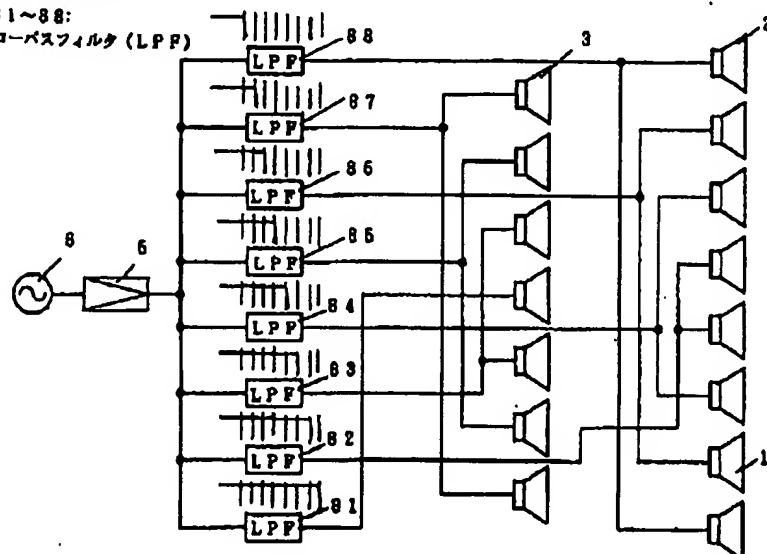




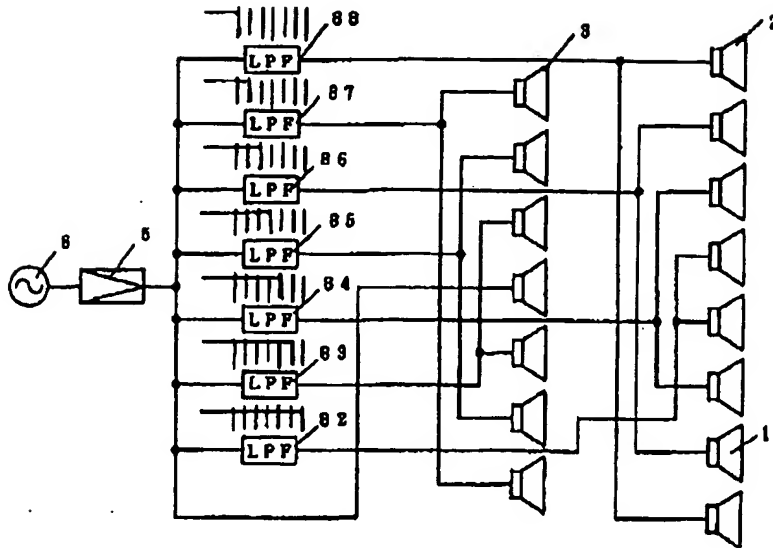


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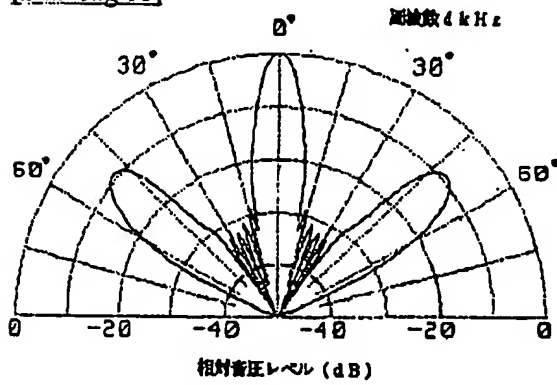
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[Drawing 8]



[Drawing 10]



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